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DMC-FT3
Digital Camera

- Waterproof 12m, Freeze-proof -10 , Shockproof 2.0m and Dust-proof
- 1920x1080 Full HD Movie in AVCHD Format and POWER O.I. S. with Active Mode
- Built-in GPS Function for Quick and Easy Retrieval
- Location Information Indicator with Altimeter, Compass, Barometer
- 3D Photo Mode and iA Mode with POWER O.I.S. (Optical Image Stabilizer)
- 28mm Wide-angle LEICA DC Lens and 12.1-megapixel Hi-speed CCD
- LUMIX Compact Digital Camera

Compact Digital Camera FT3 - Ultimate Rugged Camera Featuring Full HD Movie Recording and Various Function for Outdoor Use

Metrics

Dimensions (W x H x D)	103.5 x 64.0 x 26.5 mm (4.07 x 2.52 x 1.04 in)
Weight	Approx. 175g without Battery and SD Memory Card (0.386 lb) Approx. 197g with Battery and SD Memory Card (0.434 lb)

Optics

Camera Effective Pixels	12.1 Megapixels
Sensor Size / Total Pixels / Filter	1/2.33-type CCD sensor / 12.5 Megapixels / Primary Color Filter
Aperture	F3.3 - 5.9 / Iris Diaphragm (F3.3 - 10(W) / F5.9 - 18(T))
Optical Zoom	4.6x
Focal Length	f=4.9-22.8mm (28-128mm in 35mm equiv.) (30-140mm in 35mm equiv. in movie recording)
Extra Optical Zoom (EZ)	5.7x (4:3 / 8M), 7.3x (4:3 / 5M), 9.1x (under 3M)
Intelligent Zoom	6x
Lens	LEICA DC VARIO-ELMAR 10 elements in 8 groups (5 Aspherical Lenses / 6 Aspherical surfaces / 1 ED Lens)
2-Speed Zoom	No
Optical Image Stabilizer	POWER O.I.S. (On / Off / Active Mode(only for motion picture))
Digital Zoom	4x (Max. 18.4 x combined with Optical Zoom without Extra Optical Zoom) (Max. 36.3 x combined with Extra Optical Zoom)

DMW-BCF10E

DMW-AC5EG

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Focusing Area	Normal: Wide / Tele 30 cm - infinity Macro / Intelligent AUTO/ movie recording: Wide 5 cm - infinity / Tele 30cm - infinity
Focus Range Display	Yes
AF Assist Lamp	Yes (LED lamp in motion picture mode)
Focus	Normal / AF Macro, Zoom Macro, Quick AF, AF Tracking Continuous AF (only for motion picture)
AF Metering	Face / AF Tracking / 23pt / 1pt / Spot
Shutter Speed	Still: 8 - 1/1300 sec Starry Sky Mode : 15, 30, 60sec.
Shutter Interval	approx. 0.3 sec

Recording

Face Recognition	Photo
Optical Image Stabilizer	Photo / Movie
Intelligent ISO Control	Photo
Face Detection	Photo / Movie
Intelligent Scene Selector	Photo (Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro) Movie (Portrait, Scenery, Low Light, Macro)
Intelligent Exposure	Photo / Movie
AF Tracking	Photo
Digital Red Eye Correction (Red-Eye Removal)	Photo
Intelligent Resolution Technology	Photo / Movie
File Format	Still Image: JPEG(DCF/Exif2.3) 3D Image: MPO Motion picture: AVCHD, QuickTime Motion JPEG
AVCHD / AVCHD Lite REC	PAL
Mode Switch	[Playback] button
One-Touch Movie Button	Yes
Mode Dial / Mode Button	Intelligent AUTO, Normal Picture, Sports, Snow, Beach&Snorkeling, Under Water, SCN , 3D Photo
Still Image Scene Mode	Portrait, Soft Skin, Transform, Self-Portrait, Scenery, Panorama Assist, Night Portrait, Night Scenery, Handheld Night Shot, Food, Party, Candle Light, Baby1, Baby2, Pet, Sunset, High sensitivity, Hi-Speed Burst (Image priority, Speed priority), Flash Burst, Starry Sky, Fireworks, Aerial, Pinhole, Film Grain, High Dynamic (standard/ art/ B&W), Photoframe
Movie Scene Mode	Portrait, Soft Skin, Transform, Self-Portrait, Scenery, Low Light, Food, Party, Candle Light, Sunset, Aerial, Pinhole, Film Grain, High Sensitivity, High Dynamic(Standard, Art, B&W) (Activated by selecting Still Picture Scene Mode then pressing movie button. Still Picture Scene Modes without corresponding Movie Scene Mode is recorded in Normal Mode)
Continuous Shooting Mode	Full-Resolution Image, 3.7 frames/sec Max. 7 images High-speed Burst Mode: approx. 7 frames/sec (image priority) approx. 10 frames/sec (speed priority) (recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9, 2.5M for 1:1)
Exposure	Program AE

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Exposure Compensation	1/3 EV step, +/-2 EV
Backlight Compensation	Yes (only in Intelligent AUTO mode)
Auto (AE) Bracketing	1/3 ~1EV step, Max +/-1, 3 frames
Light Metering	Intelligent Multiple
ISO Sensitivity	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity mode (ISO 1600-6400)
Aspect Ratio	1:1 / 4:3 / 3:2 / 16:9
Still Picture Recording	[1:1] 2992x2992(9M) / 2448x2448(6M EZ) / 1920x1920(3.5M EZ) / 1536x1536(2.5M EZ) / 480x480(0.2M EZ) [4:3] 4000x3000(12M) / 3264x2448(8M EZ) / 2560x1920(5M EZ)/ 2048X1536(3M EZ) / 1600x1200(2M EZ) / 640x480(0.3M EZ) [3:2] 4000x2672 (10.5M) / 3264x2176 (7M EZ) / 2560x1712 (4.5M EZ)/ 2048x1360 (2.5M EZ) / 640x424 (0.3M EZ) [16:9] 4000x2248 (9M) / 3264x1840 (6M EZ) / 2560x1440(3.5M EZ) / 1920x1080 (2M EZ) / 640x360 (0.2M EZ)
Image Quality	Fine / Standard (3D mode: MPO Fine / MPO Standard)
White Balance	Auto / Daylight / Cloudy / Shade / Incandescent / White Set (Selectable at Portrait, Soft Skin, Transform, Self-Portrait, Panorama Assist, Sports, Baby, Pet, High Sensitivity, Highspeed Burst, Pinhole, Photo Frame, High Dynamic)
Quick Menu	Yes
Color Mode / Color Effect	Standard, Natural, Vivid, Black & White, Sepia, Cool, Warm, Happy
GPS	Yes
Real-time histogram	Yes
Composition Guide line	Yes (2 pattern)
Auto Review	off,1sec, 2sec, Hold
Easy Zoom / Zoom Resume	No / No
Optical Zoom in Motion Picture	Yes
Macro Zoom	Yes
Orientation Detector	Yes
Scene Mode Help Screen	No
Self Timer	2sec / 10sec
Focus Icon Select	Yes (in Face Recognition only)

Playback

Playback Mode	Normal Playback, Slideshow, Filtering Playback(Picture Only, Video Only, 3D, GPS, Travel, Category, Favorites), Calendar Playback
Thumbnails / Zoomed Playback	12/30-thumbnails / Yes
Calendar Display / Dual-Image Playback	Yes / No
Set Favorites / Rotate Image	Yes / No
Playback Motion Picture	Yes
Slideshow Mode	All / Picture Only / Video Only / 3D / GPS / Travel / Category / Favorites BGM Effect (Natural / Slow / Swing / Urban / OFF)
Show Histogram	Yes
Delete Image	Single / Multi / All / All except Favorites
	Yes / Yes

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DPOF Print Setting / Set Protection	
Copy / Title Edit / Text Stamp	Yes / Yes / Yes
Cut Animation	Yes
Video Divide	Yes
PictBridge Support	Single / Multi / All / Favorites / DPOF

Setup

OSD language	Japanese, English, German, French, Italian, Spanish
Movie REC Guide	Yes
Wind-Cut in Motion Picture	Yes
Travel Date / World Time	Yes / Yes

Others

LUMIX Image Uploader	Yes
LCD Monitor	6.7cm (2.7") TFT Screen LCD Display (230K dots), AR coat Field of View : approx. 100% Wide View Angle Power LCD mode, AUTO Power LCD mode
Touch Panel	No
Water Proof	12m(IPX8)
Dust Proof	Yes (IPX6)
Freeze Proof	-10
Shock Proof	2m(based on MIL-STD)
Built-in-Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off 0.3 - 5.6m (Wide/ISO Auto), 0.3 - 3.1m (Tele/ISO Auto)
Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card
Built-in-Memory	Approx. 19MB
Microphone / Speaker	Mono / Yes
Interface	micro HDMI, AV Output (PAL), USB2.0 High speed, DC Input (requires optional DC Coupler)
Viera Link	Yes
HDMI output	Auto Only (Unselectable)
Power	ID-Security Li-ion Battery Pack (3.6V, Minimum: 940mAh) (Included) AC Adaptor (Input: 110-240V AC) (Optional)
Battery life (approx.)	310 pictures (CIPA Standard)*1
Included Software	PHOTOfunSTUDIO 6.1 HD Lite Edition QuickTime Adobe Reader Super LoiLoScope (trial version)
Standard Accessories	Battery Charger, Battery Pack, Brush, AC Cable, AV Cable, USB Cable, Hand Strap, CD-ROM
NOTE	·Motion images can be recorded continuously for up to 29 min 59 sec. ·If [Rec Quality] is set to [GFS] or [FSH], and if the surrounding temperature is high, or motion picture is recorded continuously, is displayed, and the recording may be stopped halfway through.